

DEPARTMENT OF THE AIR FORCE  
Headquarters, United States Air Force  
Washington, DC 20330-1480

CFETP 1U0X1  
Parts I-II  
1 December 2011

# **AFSC 1U0X1 Remotely Piloted Aircraft Sensor Operator (RPA SO)**



## **CAREER FIELD EDUCATION AND TRAINING PLAN (CFETP)**

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**CAREER FIELD EDUCATION AND TRAINING PLAN**  
**RPA SENSOR OPERATOR**  
**AFSC 1U0X1**

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**CAREER FIELD EDUCATION AND TRAINING PLAN**  
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**PART I**

**Preface**

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training.
2. The CFETP consists of two parts; both of which are used by management to plan, manage, and control training within the career field.
  - 2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and career field path; Section C associates each level with specialty qualifications (knowledge, education, training, and other); Section D indicates resource constraints. Some examples are funds, manpower, equipment, and facilities. Section E identifies transitional training guide requirements for SSgt through MSgt. *Note: Air Force Enlisted Classification Directory (AFECD), and AFI 36-2101, Classifying Military Personnel (Officer and Enlisted), contain the specialty descriptions.*
  - 2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, and technical references to support training, Air Education and Training Command (AETC) conducted training, and correspondence course requirements. Section B contains the course objective list and training standards supervisors will use to determine if Airmen satisfied training requirements. Section C identifies available training support materials. Section D identifies a training course index that is used to determine resources available to support training. Included here are both mandatory and optional courses. Section E identifies MAJCOM unique training requirements.
3. This CFETP is designed to ensure individuals in AFSC 1U0X1 receive comprehensive and effective training at the appropriate phases of their career. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

## ABBREVIATIONS/TERMS EXPLAINED

**Air Force Career Field Manager (AFCFM).** Representative appointed by the respective HQ USAF Deputy Chief of Staff or Under Secretariat, to ensure assigned AF specialties are trained and utilized to support AF mission requirements.

**Aircrew Fundamentals Course (AFC).** A course designed to prepare enlisted personnel for their transition to a career in aviation. Knowledge presented in the course includes physiological, survival, aircrew mission, anti-hijacking and anti-terrorism, aircrew coordination, aircrew training, basic aerodynamics, aircraft publications, safety, and flight medicine. This course screens for the ability to handle the rigor of aircrew duties prior to candidates entering expensive follow-on training resources.

**Advanced Training (AT).** Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

**Aircrew Training System (ATS).** A system wherein a civilian contractor provides academic, simulator, and other designated aircrew training. ATS courses are listed in the applicable AFI 11-2MDS-Specific, Volume 1 or the Education and Training Course Announcement (ETCA) website (<https://etca.randolph.af.mil>).

**Air Reserve Component (ARC).** Air National Guard and Air Force Reserve units.

**Basic Aircraft Qualification (BAQ).** An aircrew member who has satisfactorily completed training prescribed to maintain the skills necessary to perform aircrew duties in the unit aircraft.

**Basic Mission Capable (BMC).** An aircrew member who has satisfactorily completed mission qualification training, is qualified in some aspect of the unit mission, but does not maintain MR/CMR status.

**Basic Qualification (BQ).** A status of a crewmember who has satisfactorily completed the basic training prescribed to maintain the skills necessary to operate the unit aircraft. The member must perform at the minimum frequency necessary to meet the most recent sortie and flight standards set for that weapons system.

**Career Development Course (CDC).** A self-paced correspondence course designed to upgrade to a skill level and provide the information necessary to satisfy the career knowledge component of OJT. They contain information on basic principles, techniques, and procedures common to an AFSC.

**Career Enlisted Aviator (CEA).** An individual with a primary AFSC of 1AXXX or 1U0XX (Aircrew Operations).

**Career Enlisted Aviator Center of Excellence (CEA CoE).** The USAF CEA Undergraduate Training Center located at Lackland AFB, TX. Provides undergraduate, initial skills training through award of the 3-skill level.

**Career Field Education and Training Plan (CFETP).** A CFETP is a comprehensive core training document that identifies: life-cycle education and training requirements; training support resources, and minimum core task requirements for a specialty. The CFETP aims to give personnel a clear path and instill a sense of industry in career field training.

**Combat Mission Ready (CMR).** A crewmember who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit combat mission.

**Continuation Training (CT).** The continuation training program provides crew members with the volume, frequency, and mix of training necessary to maintain proficiency in the assigned qualification level.

**Core Task (CT).** A task AFCFMs identify as a minimum qualification requirement within an Air Force specialty or duty position. Core Tasks for the AFS can be either task or knowledge based and are the STS line items fundamental to meeting these core competencies. Each MAJCOM is responsible for developing the minimum standard to which each core task will be trained. Core skills (or knowledge) must be trained, maintained, and certified, regardless of duty position/location and are based upon skill level.

**Course Objective Lists (COL).** A publication derived from initial and advanced skills CTS, identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3- or 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations.

**Crew Resource Management (CRM).** The effective use of all available resources, people, weapon systems, facilities, equipment, and environment - by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term “CRM” is used to refer to the training program, objectives, and key skills directed to this end.

**Enlisted Specialty Training (EST).** A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill-level of a specialty.

**Exportable Training.** Additional training via computer, paper, interactive video, or other necessary means to supplement training.

**Field Evaluation Questionnaire (FEQ).** An extensive survey based on the CFETP to determine how well the formal training met the apprentice levels outlined in the CFETP. This survey is sent approximately six months after graduation to the Base Education and Training Manager, if unclassified, or direct to the unit training manager, if classified.

**Field Technical Training.** Special or regular on-site training conducted by a field training detachment (FTD), Formal Training Unit (FTU) or by a mobile training team (MTT).

**Formal Training Unit (FTU).** Name given to an AETC, Air Combat Command (ACC) or Air Mobility Command (AMC) school conducting formal training.

**Full Motion Video (FMV).** Video images that cycle at 30 frames per second (30 fps). Motion pictures are run at 24 fps, which is the minimum frequency required to eliminate the perception of moving frames and make the images appear visually fluid to the eye. FMV is used to deliver moving video images to airborne and ground based platforms.

**Functional Manager.** Individuals appointed by MAJCOMs to manage education, training, and resources for an Air Force Specialty (MAJCOM Functional Manager or MFM).

**Graduate Assessment Survey (GAS).** Survey conducted in accordance with AFI 36-2201. Used by recent graduates to evaluate the quality of formal training received and its applicability to their job. The data is used to determine the effectiveness of, and need for changes in training.

**Initial Qualification Training (IQT).** Training needed to qualify aircrew for basic aircrew duties in an assigned crew position for a specific aircraft, without regard for the unit's operational mission.

**Initial Skills Training.** A formal school course that results in the award of a 3-skill level AFSC.

**Input/Feeder AFSC.** A list of AF specialties designated as approved pre-requisites for entry into a subsequent AFSC.

**Lead Command.** A MAJCOM responsible for an assigned weapons system. Lead Commands establish advocacy for designated weapon systems during their life cycle and clarify responsibilities for all using and supporting organizations. They provide primary input into the process of developing and maintaining a force structure with a balance of complementary capabilities.

**MAJCOM Functional Manager (MFM).** Primary focal point and liaison between the MAJCOM and HQ USAF on all matters relating to the career fields and aviation resource management within the command. This includes, but is not limited to, responsibility for the aircrew training programs, coordination on aircrew resource allocations, and managing education, training, and resources for a specific career field(s) for that MAJCOM.

**Major Weapons Systems (MWS).** For the purpose of this CFETP, MWS consists of all applicable Remotely Piloted Aircrafts (RPA) platform with a crew complement including at least one 1U0X1.

**Mission Capable (MC).** Status of a crewmember who has satisfactorily completed mission qualification training but who does not maintain mission ready status.

**Mission Design Series (MDS).** A term used to identify a specific aircraft designation (e.g., MQ-1, MQ-9).

**Mission Ready (MR).** A crewmember who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

**Mission Qualification Training (MQT).** Training needed to qualify aircrew in an assigned crew position for a specific aircraft to perform the command or unit mission.

**On-the-Job Training (OJT).** Hands-on, “over-the-shoulder” conducted to certify personnel in both upgrade (skill level award) and job qualification (position certification training).

**Practicum.** A means of receiving college credits through Community College of the Air Force (CCAF) Teaching Technology Associates Degree Program for formal schoolhouse instructors. It covers a wide variety of subjects beyond initial instructor qualification.

**Qualification Training (QT).** Actual hands-on task performance training designed to qualify a crewmember in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do a job.

**Resource Constraints.** Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being accomplished.

**Retraining.** An Air Force objective to balance the career force of each AFSC as needed. The retraining program allows individual Airmen a choice of career fields from which to pursue an Air Force career and provides a method to return Airmen disqualified from their current AFSC to a productive status.

**Specialty Training Standard (STS).** An AF publication that describes an AFS in terms of tasks and knowledge an Airman in that specialty may be expected to perform or to know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFS. It further serves as a contract between AETC and the functional user to show which of the overall training requirements for an AFSC are taught in formal schools and correspondence courses.

**Standard.** An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

**Subject Matter Expert (SME).** An individual qualified in a particular specialty and who is consulted with for his or her subject matter expertise or knowledge of the specialty.

**Syllabus.** Published outline of training required to achieve the proficiency specified in the course training standards for a specific course. It prescribes the course content, instructions to conduct the training, and the approximate time necessary to successfully complete all requirements. A formal syllabus may be published to include IQT, MQT, CT, and other crew training as determined by the training command, MAJCOM, or unit. (Formal and standardized syllabus are used primarily in AETC formal or developed courses.)

**Total Force.** All collective Air Force components (active duty, reserve, guard, and civilian elements) of the United States Air Force.

**Unit Type Code (UTC).** A UTC is a potential unit of capability focused on accomplishment of a specific Air Force mission. It can consist of manpower (MFE) only, equipment (LOGDET) only, or both.

**Upgrade Training (UGT).** Mandatory training that leads to attainment of higher level of proficiency.

**Utilization and Training Workshop (U&TW).** A forum consisting of the AFCFM, MAJCOM functional managers (MFM), Subject Matter Experts (SME), and AETC training personnel who determines career field training requirements.

**Weapons System Training Package (WSTP).** An instructional course which includes IQT, MQT, and CT designed for use at the unit to qualify or aid qualification in a duty position, program, or on a piece of equipment. The WSTP may be printed, computer based, flying, simulator, or other audiovisual material.

## Section A - General Information

**1. Purpose.** This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into four areas: initial skills, upgrade training (UGT), qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion required for award of the 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to maintain their skills and knowledge beyond the minimum required. The CFETP has several purposes, some are:

- 1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field training program.
- 1.2. Identifies task and knowledge training requirements for each skill level in this specialty and recommends training and education throughout each phase of an individual's career.
- 1.3. Lists courses available in the specialty, identifies sources of training, and the training medium.
- 1.4. Identifies major resource constraints that impact full implementation of the desired specialty training program.

**2. Uses.** The CFETP will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

2.1. Training personnel will develop and revise formal resident, non-resident, and exportable training based on requirements established by the user and documented in Part II of the CFETP. The lead command MFM will work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM-developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate available training resources.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

2.4. Personnel in AFSCs 1AXXX or 1U0X1 are exempt from maintaining OJT Training Folders (AF Form 623). All training is certified via AF Form 8 by trained flight examiners. Certification of the AF Form 8 eliminates the requirement to document STS items in this CFETP.

**3. Coordination and Approval.** The AFCFM is approval authority. MAJCOM functional managers and AETC training managers will identify and coordinate on the career field training requirements. The AFCFM will initiate an annual review of this document and coordinate with AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Forward applicable inputs/changes to this CFETP through MAJCOM functional managers to HQ USAF/A30-AM, 1480 Air Force Pentagon, Washington D.C. 20330-1480 or the following organizational email address: [afa3oam.workflow@pentagon.af.mil](mailto:afa3oam.workflow@pentagon.af.mil).



## **Section B - Career Progression and Information**

### **4. Specialty Description**

**4.1. Specialty Summary.** Operates RPA operations mission equipment, systems, electro-optical sensor systems, and electronic protection (EP) equipment. Gathers, records, displays, and distributes mission information. Interprets computer-generated displays and alarms. Performs and assists in mission planning. Maintains publications and currency items. Maintains communications nets with ground, air, and maritime units. Performs airborne operations functions under training and operational conditions. Manages, supervises, trains, provides expertise, and evaluates activities. Performs staff functions. Promotes and instills situational awareness in all aspects of airborne operations.

### **4.2. Duties and Responsibilities.**

**4.2.1.** Performs Intelligence, Surveillance and Reconnaissance (ISR), Basic Surface Attack (BSA), and Counterland Operations to include Close Air Support (CAS) and Air Interdiction (AI) utilizing Full Motion Video (FMV) producing sensors, mission equipment, and precision guided munitions. Performs mission planning, preflight, in-flight, and post flight duties according to aircraft technical orders and applicable Air Force Instructions (AFIs). Identifies and maintains surveillance of air, ground, and maritime objects. Performs appropriate pre/post flight RPA system inspections. Performs appropriate in-flight manual checklist as required. Accomplishes pre-mission and post-mission records and reports. Performs operational checks of sensor systems. Maintains status of air and ground activity. Coordinates with and supports other airborne and ground platforms in distributing and relaying FMV operational target and identification data. Monitors radio communications. Coordinates mission profile requirements with internal and external agencies.

**4.2.2.** Conducts unconventional/conventional warfare and special operations missions to include CAS, interdiction, armed reconnaissance, combat search and rescue, and limited forward air control. Monitors radio communications. Determines disposition and locations of hostile and/or friendly forces by studying available intelligence data. Coordinates aircraft positioning to obtain optimal performance of FMV sensor systems to support/identify friendly forces and find, fix, track, target, engage, & assess (F2T2EA) enemy. Employs RPA weapon systems during combat missions to ensure desired level of target destruction. Performs real-time battle damage assessment and operates all mission video/audio recording equipment.

**4.2.3.** Instructs, evaluates, and supervises RPA operations system activities. Conducts training for RPA operations systems personnel. Develops and reviews instructional methods and procedures used in Initial Qualification Training (IQT), Upgrade Training (UGT), and Continuation Training (CT). Reviews training status and recommends remedial training. Evaluates aircrew academic, simulation, and in-flight performances. Reviews trend analysis of flight evaluations to identify training deficiencies. Supervises subordinates during the performance of their duties. Reviews training status and arranges additional, remedial, and continuation training. Conducts periodic inspections of aircrew operations and unit activities.

**4.2.4.** Performs staff functions. Performs staff duties at squadron level and above where RPA sensor operator expertise is required.

**4.2.5.** Plans and organizes RPA sensor operator systems apprentice/journeyman/craftsman activities. Develops and improves methods of personnel utilization and aircrew operations economy. Advises commanders and staff officers of important changes and developments in the mission operations area. Identifies problems affecting the capability and efficiency of unit operations. Facilitates planning, organizing, and executing operational and training missions. Revises personnel distribution within assigned mission functions. Determines mission requirements and recommends operational procedures to meet worldwide contingency and operational tasking. Identifies and corrects faulty operational techniques.

**5. Skill/Career Progression.** Adequate training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential that everyone involved in training do their part to plan, develop, manage, conduct, and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at the appropriate points in their career. The following narrative and the AFSC 1U0X1 career field flow charts identify the training career path. They define the training required in an individual's career.

**5.1. Apprentice 3-Level.** Completion of the Aircrew Fundamentals Course (L3AQR1A411) at Lackland AFB, TX is mandatory for non-prior service (NPS) and non-aviation service cross training students. Completion of Remotely Piloted Aircraft Basic Sensor Operator Course (B80) located at Randolph AFB, TX is mandatory for award of the 3-skill level AFSC. Initial skills training requirements are identified and revised (if necessary) annually during the 1U0X1 Utilization and Training Workshop (U&TW). Task and knowledge requirements are identified in the STS, Part II, Sections A and B. Individuals must complete an initial skills course to be awarded AFSC 1U031. Initial skills training in this specialty consists of the tasks and knowledge training provided in the resident apprentice course located at either the MQ-1/9 Predator/Reaper Sensor Operator FTU Initial Qualification Course at Creech AFB, NV, Holloman AFB, NM, and March AFB, CA.

**5.2. Journeyman 5-Level.** Upgrade training to the 5-skill level in this specialty consists of task and knowledge training provided in the Aircrew Fundamental 1AX5X Career Development Course (CDC), 1U051 CDC (when available), and a minimum 12 months upgrade training. Individuals in retraining status are subject to the same requirements and a minimum of nine months upgrade training.

**5.3. Craftsman 7-Level.** Upgrade training to the 7-skill level in this specialty consists of holding the rank of SSgt and completing a minimum of 12 months upgrade training (minimum of six months for re-trainees).

**5.4. Superintendent 9-Level.** Upgrade training to the 9-skill level in this specialty consists of holding the rank of SMSgt, meeting mandatory requirements listed in Air Force Enlisted Classification Directory (AFECD) and AFI 36-2101, *Classifying Military Personnel (Officer and Enlisted)* and supervisor's recommendation.

**5.5. Chief Enlisted Manager (CEM).** CEM code is awarded when selected for promotion to Chief Master Sergeant.

**6. Training Decisions.** The CFETP uses a building block approach (simple-to-complex) to encompass the entire spectrum of training requirements for the Sensor Operator career field. This CFETP was developed to include life-cycle (day one through retirement) training requirements for this specialty. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

**6.1. Initial Skills Training.** Significant changes were made in initial skills training. The STS was changed to include Aircrew Fundamentals Course and define common core training required for the 1U0X1 AFSC.

**6.2. Five Level Upgrade Training.** The Aircrew Fundamentals, 1AX5X CDC was added as a pre-requisite volume prior to starting the AFSC 1U051 CDC. Completion of all CDC sets provides required training for upgrade in the RPA Sensor Operator related positions.

**6.3. Seven Level Upgrade Training.** The CSAF has approved a variance, eliminating the requirement for in-residence 7-level training for all 1U0X1 (Aircrew Operations Career Field) personnel.

**7. Community College of the Air Force (CCAF).** CCAF provides the opportunity to obtain an Associate in Applied Sciences (AAS) Degree. Enrollment in CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but is highly encouraged. See the CCAF web site for program details regarding the AAS degree at: <http://www.au.af.mil/au/ccaf>.

Additionally, see the Air Force Virtual Education Center website regarding AAS degree progress at: <https://my.af.mil/afvecprod/>. In addition to its associate degree program, CCAF offers the following:

**7.1. Occupational Instructor Certification.** CCAF offers the Occupational Instructor Certification to instructors teaching full time in a CCAF affiliated school. To qualify, instructors must complete an instructor course, a Teaching Practicum, have two years teaching experience, hold an associate or higher degree, and be recommended by their commander/commandant.

**7.2. Instructor of Technology & Military Science Degree.** This program is offered to enlisted members who are assigned to CCAF affiliated schools teaching CCAF degree-applicable courses. Applicants must complete three semester hours of CCAF-approved instructor methodology coursework and hold their career-field related CCAF degree or equivalent civilian college degree before registration.

**7.3. Trade Skill Certification.** When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

**7.4. Degree Requirements.** All Airmen are automatically entered into the CCAF program. The current program associates degree available from the CCAF for AFSC 1U0X1 is Air and Space Operations Technology Degree. Prior to completing an associate degree, the 5-skill level must be awarded and the following requirements must be met:

| Subject Area                                 | Semester Hrs |
|--|--------------|
| Technical Education                          | 24           |
| Leadership, Management, and Military Studies | 6            |
| Physical Education                           | 4            |
| General Education                            | 15           |
| Program Elective                             | 15           |
| <b>Total</b>                                 | <b>64</b>    |

**7.4.1. Technical Education (24 Semester Hours):** A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Requests to substitute subjects/courses must be approved in advance by the Technical Branch at CCAF. Refer to the CCAF Catalog for a current listing of Technical Core and Elective Subjects/Courses.

**7.4.1.1. Technical Core (12-24 Semester Hours):**

| Subject/Course                        | Max Semester Hrs |
|---------------------------------------|------------------|
| Aerospace Control and Warning Systems | 24               |
| Air Weapons Control Operations        | 18               |
| CCAF Internship                       | 18               |
| Computer Networking                   | 6                |
| Radio Communications                  | 6                |
| Space Systems Operations              | 24               |

#### 7.4.1.2. Technical Electives (0-12 Semester Hours):

| Subject/Course                       | Max Semester Hrs |
|--------------------------------------|------------------|
| Astronautics                         | 3                |
| Astronomy                            | 3                |
| Aviation/Flight Safety               | 3                |
| Basic Electronics Theory/Application | 6                |
| Computer Science                     | 6                |
| Management Information Systems       | 3                |
| Programming Languages                | 6                |
| Solid-State Theory/Application       | 3                |
| Space Propulsion                     | 3                |
| Survival Training                    | 3                |
| Technical Writing                    | 3                |

**7.4.2. Leadership, Management, and Military Studies (6 Semester Hours):** Professional Military Education and/or civilian management courses accepted in transfer and/or by testing credit. See *CCAF General Catalog* for application of civilian management courses.

**7.4.3. Physical Education (4 Semester Hours):** This requirement is satisfied by completion of Basic Military Training.

**7.4.4. General Education (15 Semester Hours):** Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and agree with the definitions of applicable General Education subject/courses as provided in the *CCAF General Catalog*.

| Subject/Course   | Semester Hrs |
|--|--------------|
| Oral Communication (speech)  | 3            |
| Written Communication (English composition)  | 3            |
| Mathematics (intermediate algebra or college-level mathematics)  | 3            |
| Social Science (anthropology, archaeology, economics, geography, government, history, political science, psychology, sociology)          | 3            |
| Humanities [courses in fine arts (criticism, appreciation, historical significance), foreign language, literature, philosophy, religion] | 3            |

**7.4.5. Program Elective (15 Semester Hours):** Satisfied with applicable Technical Education, Leadership, Management, and Military Studies or General Education subjects/courses.

7.5. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an FTU Instructor should be actively pursuing an associate's degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

## 8. Career Field Flow Charts.

Figure 1. Enlisted Education and Training Path

Figure 2. Career Path #1

Figure 3. Career Path #2

Figure 4. 1U0X1 Assignment Locations

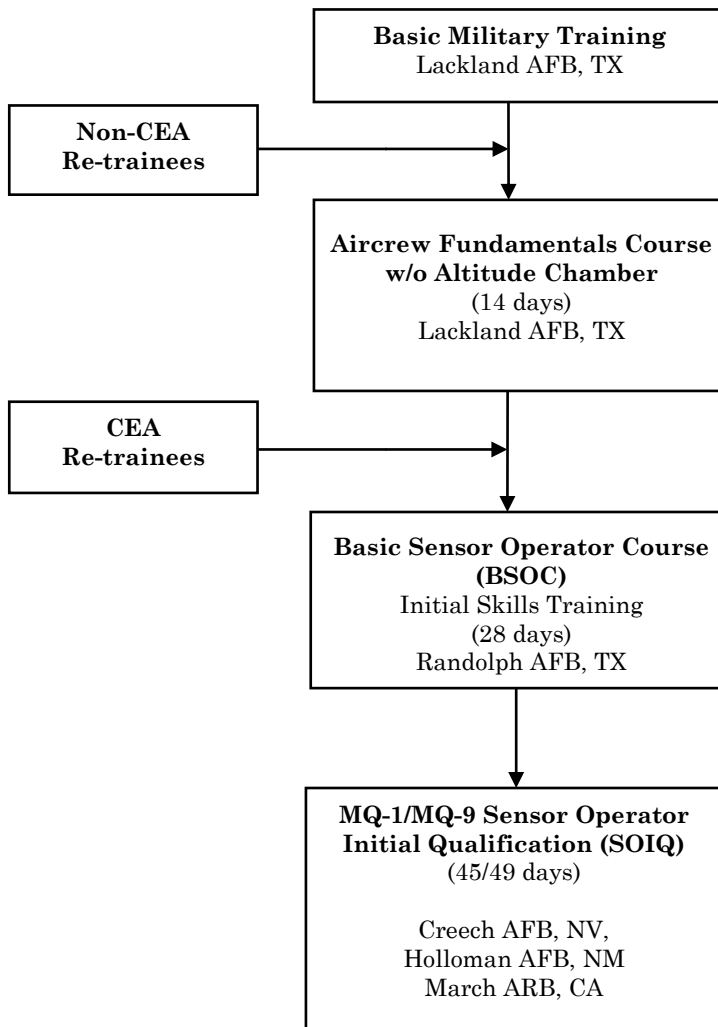
### NOTE:

Personnel graduating from the BSOC are awarded AFSC 1U031 and are authorized to wear the RPA Sensor Operator Wings. Wear and permanent awarding requirements of the RPA Sensor Operator Wings will be IAW AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Aviation Badges* and MAJCOM supplements. Failure to complete initial qualification training (IQT) is justification for supervisors to recommend revocation of wear of the RPA SO wings.

| Enlisted Education and Training Path  |                    |                 |                   |               |                           |
|---|--------------------|-----------------|-------------------|---------------|---------------------------|
|   | GRADE REQUIREMENTS |                 |                   |               |                           |
| Education and Training Requirements   | Rank               | Earliest Sew-on | Air Force Average | 1U0X1 Average | High Year of Tenure (HYT) |
| <b>Basic Military Training School (BMTS)</b>  | AB                 |                 |                   |               |                           |
| <b>Apprentice Technical School (3-Skill Level)</b>  | Amn                | 6 months        |                   |               |                           |
| <b>Upgrade To Journeyman (5-Skill Level)</b><br>- Minimum 12 months on-the-job training<br>- Minimum 9 months on-the-job training for retrainees<br>- Complete appropriate CDC  | A1C                | 16 months       |                   |               |                           |
|   | SrA                | 28 months       | 3 years           | 3 Years       | 12 years                  |
| <b>Airman Leadership School (ALS)</b><br>- Must be a SrA with 48 months time in service or be a SSgt selectee (ARC: Must be a SrA with 42 months time in service to accomplish ALS by correspondence)<br>- Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only) |                    |                 |                   |               |                           |
| <b>Upgrade To Craftsman (7-Skill Level)</b><br>- Minimum rank of SSgt<br>- 12 months OJT<br>- 6 months OJT for retrainees   | SSgt               | 3 years         | 7.5 years         | 4.2 Years     | 20 years                  |
| <b>Noncommissioned Officer Academy (NCOA)</b><br>- Must be a TSgt or TSgt selectee<br>- Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only)<br>- Resident or correspondence graduation is a prerequisite for MSgt sew-on (ARC Only)                            | TSgt               | 5 years         | 12.5 years        | 10.3 Years    | 22 years                  |
| <b>USAF Senior NCO Academy (SNCOA)</b><br>- Must be a SMSgt, SMSgt selectee, or a selected MSgt to attend<br>- Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only)<br>- Resident or correspondence graduation is a prerequisite for SMSgt sew-on (ARC Only)   | MSgt               | 8 years         | 16 years          | 17 Years      | 24 years                  |
| <b>Upgrade to Superintendent (9-Skill level)</b><br>- Minimum rank of SMSgt   | SMSgt              | 11 years        | 19.2 years        | 18.4 Years    | 26 years                  |
| <b>Chief Enlisted Manager (CEM)</b><br>- Minimum rank of CMSgt<br>- Completed SNCO Academy (Active Duty Only)<br>- Chief Leadership Course (CLC)  | CMSgt              | 14 years        | 21.5 years        | 22.3 Years    | 30 years                  |
| Data current as of October 2011   |                    |                 |                   |               |                           |

**Figure 1**

## 1U0X1 Career Path 1 of 2

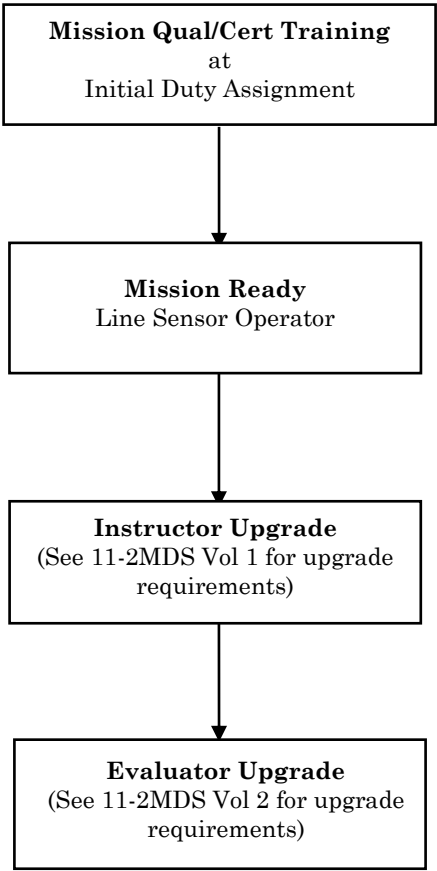


**Figure 2**

**NOTE:**

The courses outlined in Figure 2 represent the formal training required for personnel entering and becoming fully qualified in the RPA Sensor Operator Specialty. The locations, course lengths, and titles are subject to change. Changes will be updated in the Education Training Course Announcement (ETCA) by the course owner.

# **1U0X1 Career Path 2 of 2**



| <b><u>Career Broadening and Special Duty Jobs for 1U0XX:</u></b> |                              |                     |
|--|------------------------------|---------------------|
| Section Chief  | Flight Chief                 | Squadron Evaluator  |
| Squadron Superintendent  | Squadron Instructor          | FTU Evaluator       |
| Squadron Program Manager   | Squadron Training Flight     | Ops Group Stan/Eval |
| Ops Group Functional Manager                                     |                              | FTU Instructor      |
| NAF Stan/Eval  | MAJCOM Functional Manager    |                     |
| Wing Training  | MAJCOM Stan/Eval             | AFCFM               |
| Air Force Expeditionary Center                                   |                              | CoE Instructor      |
| First Sergeant   | Military Training Instructor | Recruiter           |
| Group Superintendent   | PME Instructor               |                     |
| Command Chief  |                              |                     |

**Figure 3**

**\*1U0X1 Assignment Locations**

| <b>Location</b>                    | <b>CMS</b> | <b>SMS</b> | <b>MSG</b> | <b>TSG</b> | <b>SSG</b> | <b>SRA</b> | <b>AMN</b> | <b>Student</b> |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| Cannon AFB, NM                     | X          | X          | X          | X          | X          | X          | X          |                |
| Creech AFB, NV                     | X          | X          | X          | X          | X          | X          | X          | X              |
| Davis-Monthan, AZ                  |            |            |            | X          |            |            |            |                |
| Ellsworth AFB, SD                  |            | X          | X          | X          | X          | X          | X          |                |
| Holloman AFB, NM                   |            | X          | X          | X          | X          | X          | X          | X              |
| Hurlburt Field, FL                 |            |            | X          |            |            |            |            |                |
| JB Langley-Eustis, VA              |            |            | X          |            | X          |            |            |                |
| Lackland AFB, TX                   |            |            |            |            | X          |            |            | X              |
| March ARB, CA                      |            |            |            |            |            |            |            | X              |
| Nellis AFB, NV                     |            |            | X          | X          | X          | X          | X          |                |
| Randolph AFB, TX                   |            | X          | X          | X          | X          |            |            | X              |
| Tonopah AFB, NV                    |            | X          |            | X          | X          | X          |            |                |
| Whiteman AFB, MO                   | X          | X          | X          | X          | X          | X          | X          |                |
| Data Current as of: September 2011 |            |            |            |            |            |            |            |                |

**NOTE:** The authorizations listed above are subject to change without notice. Sensor Operators interested in assignments to locations listed should consult their MAJCOM functional manager or the Air Force Personnel Center (AFPC) resource manager for more detailed information about requirements for a specific location.

**Figure 4**



## Section C - Skill Level Training Requirements

**9. Purpose.** Skill level training requirements in this career field are defined in terms of task and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS and the Course Objective List at Part II, Section A and B of this CFETP.

### 10. Specialty Qualifications:

#### 10.1. Apprentice 3-Level Training:

##### 10.1.1. Specialty Qualification.

10.1.1.1. **Knowledge.** Knowledge is mandatory of sensor fundamentals and the operational characteristics of intelligence, surveillance and reconnaissance (ISR), Counterland operations and mission systems; target detection and tracking functions; interpreting computer-generated console situation, electronically generated data, using identification procedures, passing, receiving and interpreting data link information; using air-to-air and air-to-ground communications systems; emergency procedures and equipment; maintenance of standard and technical publications; performing emergency action procedures and conducting theater air activities.

10.1.1.2. **Education.** For entry into this specialty, completion of high school with courses in physics and mathematics are desirable.

10.1.1.2.1. Minimum ASVAB score of 64 (General) or 54 (Electrical).

10.1.1.3. **Training.** For award of AFSC 1U031, individuals must meet mandatory requirements listed in specialty description in Air Force Enlisted Classification Directory (formally known as AFMAN 36-2108). Completion of the Aircrew Fundamentals Course is mandatory for NPS and non-aviation service cross training students. Completion of the Basic Sensor Operator Course is mandatory for award of the 3-skill level AFSC.

10.1.1.4. **Other.** The following are mandatory as indicated:

10.1.1.4.1. For entry, award, and retention of this AFSC:

10.1.1.4.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standard*.

10.1.1.4.1.2. Physical qualification for ground based controller duty according to AFI 48-123, *Medical Examination and Standards*, Volume 3, Chapter 1, Paragraph 1.1 and Attachment 2. NOTE: A Flying Class III physical is not required.

10.1.1.4.1.3. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

10.1.1.4.1.4. Eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.1.1.4.1.5. Must maintain eligibility to deploy and mobilize worldwide.

10.1.2. **Training Sources.** Completion of the BSOC satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 3-skill level. Completion of the Aircrew Fundamentals Course is mandatory.

10.1.3. **Implementation.** Entry into training is accomplished by initial accessions from BMTS or approved retraining from any AFSC. After graduation from BSOC, the trainee will attend initial qualification training (IQT). Upgrade training is initiated anytime the trainee is assigned duties they are not qualified to perform.

## 10.2. Journeyman 5-Level Training:

10.2.1. **Specialty Qualification.** All qualifications for AFSC 1U031 apply to the 1U051 requirements.

10.2.1.1. **Knowledge.** In addition to knowledge required for the 3-level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to operate and maintain RPA Sensor Operator systems. Knowledge is mandatory of air tasking orders, receiving, recording, and relaying operational threat data. Completion of qualification criteria in current assigned aircraft is mandatory.

10.2.1.2. **Education.** To assume the rank of SSgt, individual must be a graduate of the ALS.

10.2.1.3. **Training.** Completion of the following is mandatory for award of the 5-skill level:

10.2.1.3.1. Completion of course RPA BSOC and mission qualification training is required. Completion of Aircrew Fundamentals CDC, 1U051 CDCs, 12 months in upgrade training (9 months for retrainees), and recommendation by his or her supervisor is mandatory for award of the journeyman AFSC.

10.2.1.4. **Experience.** Qualification in and possession of AFSC 1U031. Performing functions in RPA sensor systems and/or mission equipment functions is desired. For upgrade to AFSC 1U051, experience is mandatory in functions such as: target acquisition, target tracking, and target reporting. Also experience in receiving, displaying, recording and relaying threat data and Counterland Operations using the precision guided munitions during combat missions to ensure desired level of target destruction.

10.2.1.5. **Other.** See paragraph 10.1.1.4

10.2.2. **Training Sources.** Completion of Aircrew Fundamentals CDC, 1U051 CDC, RPA Sensor Operator Journeyman OJT, MQT, and CT satisfies the knowledge and training requirements specified (above). Upgrade and qualification training are provided by qualified trainers using current Air Force Instructions for the duty position, program to be managed, or equipment to be used. Current training courses are listed in Part II, Section D of this CFETP. Requests for qualified trainers should be directed to your unit training manager.

10.2.3. **Implementation.** Entry into 5 skill level upgrade training is initiated when the individual possesses the 3-skill level. Enrollment into 5-level CDCs is accomplished once the trainee has completed mission qualification training (MQT) at their first duty location. Aircrew Fundamentals CDC and 1U051 CDC will be completed prior to award of the 5-skill level. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

## 10.3. Craftsman 7-Level Training:

10.3.1. **Specialty Qualification.** All 1U031 and 1U051 qualifications apply to the 1U071 requirements.

10.3.1.1. **Knowledge.** In addition to knowledge required for the 5-skill level and other qualifications as listed above, an individual must possess the aircrew management principles, knowledge, and supervisory skills necessary to supervise personnel, and operate and maintain RPA SO Operations Systems.

10.3.1.2. **Education.** To assume the grades of SSgt through MSgt, individuals must be graduates of the ALS and the NCO Academy (NCOA), respectively.

10.3.1.3. **Training.** Complete a minimum of 12 months in 7-level on-the-job training (OJT). The CSAF has approved a variance eliminating the requirement for in-residence, 7-skill level training for all 1U0X1 (Air Operations career field personnel).

10.3.1.4. **Experience.** Qualification in and possession of AFSC 1U051 qualification is mandatory as an RPA Sensor Operator Systems Journeyman. Also, experience is mandatory in performing ISR and Counterland Operations.

10.3.1.5. **Other.** See paragraph 10.1.1.4.

**10.3.2. Training Sources.** The STS identifies all tasks required for qualification. Upgrade and qualification and certification training are provided by qualified trainers using current Air Force Instructions for the duty position, program to be managed, or equipment to be used. Current training courses are listed in Part II, Section D of this CFETP.

**10.3.3. Implementation.** Trainees selected for promotion to SSgt will enter 7-level upgrade training the first day of the promotion cycle, (1 September each year). The only exception is promotion under the Stripes for Exceptional Performers (STEP) program.

#### **10.4. Superintendent 9-Level Training:**

##### **10.4.1. Specialty Qualification.**

**10.4.1.1. Knowledge.** In addition to knowledge required for the 7-skill level qualification, an individual must possess advanced skills and knowledge of concepts and principles in the effective leadership and management of assigned personnel and resources.

**10.4.1.2. Education.** Completion of in-resident USAF Senior NCO Academy or sister service equivalent. Additionally, SNCOs are expected to achieve award of the Community College of the Air Force (CCAF) Associate of Applied Science degree in this field.

**10.4.1.3. Training.** Must hold the rank of SMSgt and have supervisor's recommendation for award of the 9-skill level. (active duty only)

**10.4.1.4. Experience.** Qualification in and possession of AFSC 1U071. Also, experience in directing functions pertaining to Sensor Operator activities. Experience in the management of aircrew operations and aircraft systems is mandatory. Additionally, experience is mandatory in the performance of supervisory and management functions.

**10.4.1.5. Other.** See paragraph 10.1.1.4.

**10.4.2. Training Sources.** USAF Senior NCO Academy (or sister service equivalent).

**10.4.3. Implementation.** Individual attains the rank of SMSgt and possesses the 7-skill level. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

## **Section D - Resource Constraints**

**11. Purpose.** This section identifies known resource constraints that preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be reviewed and updated at least annually.

**12. Apprentice Level Training.** None Identified.

**13. Journeyman Level Training.** None Identified.

**14. Craftsman Level.** None Identified.

## PART II

### Section A - Specialty Training Standard (STS)

**1. Implementation.** This STS will be used for technical training provided by AETC for classes beginning 1 January 2012.

**2. Purpose.** As prescribed in AFI 36-2201, Volume 5, this STS:

2.1. Lists in column 1 of attachment 2, the tasks, knowledge, and technical references (TR) necessary for airmen to perform in the 3- and 5-skill level AFSC in the Remotely Piloted Aircraft Sensor Operator Career Field. These are based on an analysis of the duties listed in Air Force Enlisted Classification Directory.

2.2. Column 2 (3-skill level and 5-skill level) shows formal training and correspondence course requirements as described in ETCA at web site <https://etca.randolph.af.mil/> and the career knowledge provided by the correspondence course. There is no advanced course. See AFIADL/AFSC/CDC listing maintained by the unit OJT manager for current CDC listings.

2.3. **Qualitative Requirements.** Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.4. Is a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the Air Force Occupational Measurement Squadron (AFOMS) by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members to be most appropriate for promotion to higher grades. Questions are based on study references listed in the WAPS study catalog. Individual responsibilities are in AFI 36-2605, *Air Force Military Personnel Testing System*.

**3. Recommendations.** Report unsatisfactory performance of individual course graduates to 558th Fly Training Squadron, 330 H Street West Ste 1, Randolph AFB, TX 78150-4504. Please reference specific STS paragraphs when submitting recommendations.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

BRETT T. WILLIAMS, Maj Gen, USAF  
Director of Operations  
DCS, Operations, Plans & Requirements

2 Attachments:

1. Qualitative Requirements
2. STS 1U0X1: Remotely Piloted Aircraft Sensor Operator Specialty

| THIS BLOCK FOR IDENTIFICATION PURPOSES ONLY              |                             |                |
|--|-----------------------------|----------------|
| NAME OF TRAINEE  |                             |                |
| PRINTED NAME ( <i>Last, First Middle Initial</i> )       | INITIALS ( <i>Written</i> ) | Last 4 of SSAN |
| PRINTED NAME OF CERTIFYING OFFICIAL AND WRITTEN INITIALS |                             |                |
| N/I  | N/I                         |                |
| N/I  | N/I                         |                |
| N/I  | N/I                         |                |
| N/I  | N/I                         |                |
| N/I  | N/I                         |                |
| N/I  | N/I                         |                |

**QUALITATIVE REQUIREMENTS**

| PROFICIENCY CODE KEY               |   |  |
|------------------------------------|---|--|
|                                    | SCALE VALUE   | DEFINITION: The Individual   |
| TASK PERFORMANCE<br><br>LEVELS     | 1   | Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)       |
|                                    | 2   | Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)                          |
|                                    | 3   | Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)                             |
|                                    | 4   | Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT) |
| **TASK KNOWLEDGE<br><br>LEVELS     | a   | Can name parts, tools, and simple facts about the task. (NOMENCLATURE)   |
|                                    | b   | Can determine step by step procedures for doing the task. (PROCEDURES)   |
|                                    | c   | Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)              |
|                                    | d   | Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)                                     |
| ***SUBJECT KNOWLEDGE<br><br>LEVELS | A   | Can identify basic facts and terms about the subject. (FACTS)  |
|                                    | B   | Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)            |
|                                    | C   | Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)                              |
|                                    | D   | Can evaluate conditions and make proper decisions about the subject. (EVALUATION)                                |
| EXPLANATIONS                       |   |  |
| **                                 | A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)                  |  |
| ***                                | A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks. |  |
| -                                  | This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.   |  |
| x                                  | This mark is used alone in course columns to show that training is required but not given due to limitations in resources.  |  |
| @@                                 | This mark is used to show the five general education requirements by CLEP/DANTES (pass or fail) towards CCAF degree.  |  |

| 1.  | 2.  |                                 |                                |                                     |
|---|---|---------------------------------|--------------------------------|-------------------------------------|
|   | Proficiency codes are used to indicate training /information provided |                                 |                                |                                     |
| TASKS, KNOWLEDGE<br>AND TECHNICAL REFERENCES  | A<br>3-Skill<br>Level   |                                 | B<br>5-Skill<br>Level          |                                     |
|   | Aircrew<br>Fundamentals   | AFSC<br>Technical<br>Principles | Aircrew<br>Fundamentals<br>CDC | AFSC<br>Technical<br>Principles CDC |
| <b>1. Career Ladder Progression</b><br><b>TR: AFI 36-2101, AFI 11-202v1, AFI 11-202v2,</b><br><b>DODR 5210.42 AFMAN 10-3902, AFI 11-401, AF</b><br><b>Mission Directives</b>  |   |                                 |                                |                                     |
| 1.1. Progression within 1U0XX AFSC's  | -   | A                               | -                              | B                                   |
| 1.2. Duties within 1U0XX AFSC's   | -   | A                               | -                              | B                                   |
| 1.3. Total Force  | A   | -                               | B                              | -                                   |
| 1.3.1. MAJCOM Missions  | A   | -                               | B                              | -                                   |
| 1.3.2. Specific RPA MAJCOM Missions   | -   | A                               | -                              | B                                   |
| 1.4. Joint / Combined Service   | A   | -                               | B                              | -                                   |
| <b>2. Security</b><br><b>TR: DODR 5200.1, AFI 10-701, 31-201v2, 31-401,</b><br><b>10-701</b>  |   |                                 |                                |                                     |
| 2.1. COMSEC relating to aircrew   | A   | -                               | B                              | -                                   |
| 2.2. OPSEC relating to aircrew  | A   | -                               | B                              | -                                   |
| 2.3. Perform Anti-Hijacking / Anti-Terrorism<br>procedures  | 1a  | -                               | -                              | -                                   |
| 2.3.1. Identify facts related to anti-hijacking   | 1a  | -                               | -                              | -                                   |
| 2.3.2. Identify facts related to anti-terrorism   | 1a  | -                               | -                              | -                                   |
| 2.4. Information Security relating to aircrew   | A   | -                               | B                              | -                                   |
| 2.5. Physical Security relating to aircrew  | A   | -                               | B                              | -                                   |
| 2.5.1. Perform flight line security procedures  | 1a  | -                               | -                              | -                                   |
| <b>3. Crew Resource Management (CRM)</b><br><b>TR: AFI 11-290</b>   |   |                                 |                                |                                     |
| 3.1. Fundamentals   | A   | -                               | B                              | -                                   |
| 3.2. Communication  |   |                                 |                                |                                     |
| 3.2.1. Terms and definitions  | B   | -                               | -                              | -                                   |
| 3.2.2. Radio discipline   | A   | -                               | -                              | -                                   |
| 3.3. Checklist Usage  |   |                                 |                                |                                     |
| 3.3.1. Boldface Items   | -   | A                               | -                              | -                                   |
| 3.3.2. Critical Action Procedures   | -   | A                               | -                              | -                                   |
| 3.3.3. Emergency Procedures   | -   | A                               | -                              | -                                   |
| <b>4. Aviation Safety / AF Occupational Safety and<br/>Health (AFOSH) Program</b><br><b>TR: AFI 32-7086, 91-201, 91-202, 91-301, 91-302,</b><br><b>91-303, AFMAN 24-204, AFOSH Std 91-25, 91-66,</b><br><b>91-100, AFOSH 48-139, AFPAM 91-121, AFH11-</b><br><b>203v1, AFI 11-203v2, FAA PHAK, AFTTP 3-3.</b> |   |                                 |                                |                                     |

| 1.  | 2.  |                                 |                                |                                     |
|---|---|---------------------------------|--------------------------------|-------------------------------------|
|   | Proficiency codes are used to indicate training /information provided |                                 |                                |                                     |
| TASKS, KNOWLEDGE<br>AND TECHNICAL REFERENCES  | A<br>3-Skill<br>Level   |                                 | B<br>5-Skill<br>Level          |                                     |
|   | Aircrew<br>Fundamentals   | AFSC<br>Technical<br>Principles | Aircrew<br>Fundamentals<br>CDC | AFSC<br>Technical<br>Principles CDC |
| <b>Predator/Reaper, JP 3-09.1, AFD-090121-045, -1 T.O., -34 T.O.</b>  |   |                                 |                                |                                     |
| 4.1. Aviator hazards  |   |                                 |                                |                                     |
| 4.1.1. Engine air intake and exhaust  | A   | -                               | B                              | -                                   |
| 4.1.1.1. Apply appropriate safety measures  | 1a  | -                               | -                              | -                                   |
| 4.1.2. High intensity sound   | A   | -                               | B                              | -                                   |
| 4.1.2.1. Apply appropriate safety measures  | 1a  | -                               | -                              | -                                   |
| 4.1.3. Rotor / propeller planes of rotation   | A   | -                               | B                              | -                                   |
| 4.1.3.1. Apply appropriate safety measures  | 1a  | -                               | -                              | -                                   |
| 4.1.4. Antenna radiation  | A   | -                               | B                              | -                                   |
| 4.1.4.1. Apply appropriate safety measures  | 1a  | -                               | -                              | -                                   |
| 4.1.5. Aircraft electrical system   | A   | -                               | -                              | -                                   |
| 4.1.5.1. Apply appropriate safety measures  | 1a  | -                               | -                              | -                                   |
| 4.1.6. Ground support equipment   | A   | -                               | B                              | -                                   |
| 4.1.6.1. Apply appropriate safety measures  | 1a  | -                               | -                              | -                                   |
| 4.2. Weather  | A   | -                               | -                              | -                                   |
| 4.2.1. Weather conditions   | -   | -                               | -                              | B                                   |
| 4.2.2. Reports  | -   | -                               | -                              | B                                   |
| 4.2.3. Weapons system / mission impact  | -   | A                               | -                              | B                                   |
| 4.3. Bird Avoidance Strike Hazard (BASH) Program  | A   | -                               | B                              | -                                   |
| 4.4. Hazardous Materials (HAZMAT)   | A   | -                               | B                              | -                                   |
| 4.5. Foreign Object Damage (FOD) Hazards / Prevention   | A   | -                               | B                              | -                                   |
| 4.6. High intensity light (Strobes)   | A   | -                               | B                              | -                                   |
| 4.7. Occupational Hazards   |   |                                 |                                |                                     |
| 4.7.1. RPA Aviation Safety  | -   | A                               | -                              | B                                   |
| 4.7.2. RPA Shift Fatigue  | -   | A                               | -                              | B                                   |
| 4.7.3. Laser Hazards  | -   | A                               | -                              | B                                   |
| 4.7.4. Weapons/Munitions Hazards  | -   | A                               | -                              | B                                   |
| <b>5. Publications<br/>TR: AFI 11-215, 33-360, 37-160v1, T.O. 00-20, 00-5-1/2, DODR 4500-32v1, 11-202v2</b> |   |                                 |                                |                                     |
| 5.1. Air Force Technical Orders   | B   | -                               | B                              | -                                   |
| 5.1.1. Use T.O.s  | 2b  | -                               | -                              | -                                   |
| 5.1.2. Post changes   | 2b  | -                               | -                              | -                                   |
| 5.2. Publications   | B   | -                               | B                              | -                                   |

| 1.   | 2.  |  |   |  |
|--|---|--|---|--|
|  | Proficiency codes are used to indicate training /information provided |  |   |  |
| <b>TASKS, KNOWLEDGE<br/>AND TECHNICAL REFERENCES</b>   | <b>A<br/>3-Skill<br/>Level</b>  |  | <b>B<br/>5-Skill<br/>Level</b>          |  |
|  | <b>Aircrew<br/>Fundamentals</b>                                       | <b>AFSC<br/>Technical<br/>Principles</b> | <b>Aircrew<br/>Fundamentals<br/>CDC</b> | <b>AFSC<br/>Technical<br/>Principles CDC</b> |
| 5.2.1. Use publications  | 2b  | -  | -                                       | -  |
| 5.2.2. Post changes  | 2b  | -  | -                                       | -  |
| 5.3. Flight Publication Improvement Reports  | B   | -  | B                                       | -  |
| 5.3.1. Complete Flight Publication Improvement Report (AF Form 847)  | 2b  | -  | -                                       | -  |
| 5.4. AFTO IMT 781 series   | B   | -  | B                                       | -  |
| 5.4.1. Use AFTO IMT 781A   | 1a  | -  | -                                       | -  |
| 5.5. Flight Crew Information File  | B   | -  | B                                       | -  |
| 5.5.1. Use Flight Crew Information File  | 2b  | -  | -                                       | -  |
| <b>6. Aircrew / Flight Management<br/>TR: AFD 11-4, AFI 11-401, 11-402, 11-412, 11-202, 38-201, 48-123v3</b> |   |  |   |  |
| 6.1. Responsibilities of HQ USAF and MAJCOM aircrew managers   | -   | -  | A                                       | -  |
| 6.2. Flight authorization  | A   | -  | A                                       | -  |
| 6.3. Aviation Resource Management (ARM)  |   |  |   |  |
| 6.3.1. Host Aviation Resource Management (HARM)  | A   | -  | A                                       | -  |
| 6.3.2. Squadron Aviation Resource Management (SARM)  | A   | -  | A                                       | -  |
| 6.4. Flight Records Folder (FRF)   | A   | -  | A                                       | -  |
| 6.5. Aviation service, aeronautical ratings, badges  | A   | -  | B                                       | -  |
| 6.6 Incentive Pays   | B   | -  | B                                       | -  |
| 6.7. Flight medicine   |   |  |   |  |
| 6.7.1. Flight surgeon functions  | B   | -  | B                                       | -  |
| 6.7.2. Grounding / Duties Not Including Flying (DNIF) status   | B   | -  | B                                       | -  |
| 6.8. Aircrew member responsibilities   |   |  |   |  |
| 6.8.1. Crew rest   | A   | -  | B                                       | -  |
| 6.8.2. Restrictions  | A   | -  | B                                       | -  |



|  |    |   |   |   |
|--|----|---|---|---|
| <b>7. Aircrew Training / Supervision</b><br><b>TR: AFI 11-2MDS V1, 11-202v1/2, 36-2101, 36-2201 series, Education &amp; Training Course Announcements (ETCA)</b> |    |   |   |   |
| 7.1. Line Item Not Used / Reserved   | -  | - | - | - |
| 7.2. Line Item Not Used / Reserved   | -  | - | - | - |
| 7.3. Initial qualification training  | A  | - | B | - |
| 7.4. Mission qualification training  | A  | - | B | - |
| 7.5. Continuation training / maintaining currency  | A  | - | B | - |
| 7.6. Requalification training  | A  | - | - | - |
| 7.7. Flight Training Records   | A  | - | B | - |
| 7.8. Standardization/Evaluation functions  | A  | - | B | - |
| 7.9. Flight Evaluation Folder (FEF)  | A  | - | B | - |
| 7.10. Life support equipment   | A  | - | - | - |
| <b>8. Aerodynamics</b><br><b>TR: -1 T.O., AFH 11-203v1, T.O. 1-1B-50</b>   |    |   |   |   |
| 8.1. Fixed wing  | A  | - | - | - |
| 8.2. Rotary wing   | A  | - | - | - |
| 8.3. Aircraft general (basic construction)   | A  | - | - | - |
| 8.4. Flight controls   | A  | - | - | - |
| 8.5. Instruments   | A  | - | - | - |
| 8.6. Aircraft weight and balance   |    |   |   |   |
| 8.6.1. Principles  | A  | - | - | - |
| 8.6.2. Apply concepts  | 1a | - | - | - |
| 8.6.3. Solve math problems   | 1a | - | - | - |
| <b>9. Aircrew Activities</b><br><b>TR: -1 T.O., -9 T.O, AFI 10-707, 11-202</b>   |    |   |   |   |
| 9.1. Mission briefings   | A  | - | - | - |
| 9.1.1. Mission planning documents  | A  | - | - | - |
| 9.2. Professional equipment  | A  | - | A | - |
| 9.3. Perform egress procedures   | 1a | - | - | - |
| 9.4. Identify aircraft emergency equipment   | 1a | - | - | - |
| 9.5. Oxygen requirements   | A  | - | A | - |
| 9.6. Joint Spectrum Interference Resolution (JSIR) / Air Force Spectrum Interference Resolution (AFSIR)  | A  | - | B | - |

|   |   |   |   |   |
|---|---|---|---|---|
| <b>10. Aircraft Systems / Equipment</b><br><b>TR: -1 T.O., MAJCOM guidance and T.O. 00-25-172, AFI 11-202</b>       |   |   |   |   |
| 10.1. Electrical  | A | - | - | - |
| 10.2. Hydraulic   | A | - | - | - |
| 10.3. Environmental   | A | - | - | - |
| 10.4. Communications  | A | - | - | - |
| 10.5. Oxygen  | A | - | - | - |
| 10.6. Fuel  | A | - | - | - |
| 10.7. Concurrent servicing  | A | - | - | - |
| 10.8. Fleet Service equipment   | A | - | - | - |
| 10.9. Engines   | A | - | - | - |
| 10.10. Navigation lighting  | A | - | - | - |
| <b>11. RPA Weapons System</b><br><b>TR:-1 T.O., -34 T.O., AFTTP 3-3.</b><br><b>Predator/Reaper, AFTTP(I) 3-2.64</b> |   |   |   |   |
| 11.1. RPA Aircraft  |   |   |   |   |
| 11.1.1. MQ-1 Predator   | - | A | - | B |
| 11.1.2. MQ-9 Reaper   | - | A | - | B |
| 11.2. Ground Control Stations   |   |   |   |   |
| 11.2.1. Function and Types of GCS (Fixed/Mobile)  | - | A | - | B |
| 11.2.2. GCS Equipment   | - | A | - | B |
| 11.3. RPA Control Data Links  |   |   |   |   |
| 11.3.1. BLOS Operations   | - | A | - | B |
| 11.3.2. LOS Operations  | - | A | - | B |
| 11.3.3. Datalink Encryption   | - | A | - | B |
| <b>12. Sensors</b><br><b>TR: -1 T.O., TOSD AAS-52C, AN/DAS-1A,</b><br><b>AFTTP 3-3. Predator/Reaper</b>             |   |   |   |   |
| 12.1. General Sensor Theory   |   |   |   |   |
| 12.1.1. Electromagnetic Spectrum  | - | A | - | B |
| 12.1.2. Atmospheric conditions  | - | A | - | B |
| 12.2. Radar   |   |   |   |   |
| 12.2.1. Theory  | - | A | - | B |
| 12.2.2. Components  | - | A | - | B |
| 12.3. Infrared  |   |   |   |   |
| 12.3.1. Theory  | - | A | - | B |
| 12.3.2. Components  | - | A | - | B |
| 12.4. Television / Optical  |   |   |   |   |
| 12.4.1. Theory  | - | A | - | B |
| 12.4.2. Components  | - | A | - | B |
| 12.5. Fused Optics  |   |   |   |   |
| 12.5.1. Theory  | - | A | - | B |
| 12.5.2. Components  | - | A | - | B |
| 12.6. RPA LASER   |   |   |   |   |
| 12.6.1. Theory  | - | A | - | B |
| 12.6.2. Components  | - | A | - | B |

|  |   |    |   |   |
|--|---|----|---|---|
| 12.7. Marking Devices  | - | A  | - | B |
| 12.8. RPA Sensor Limitations   | - | A  | - | B |
| <b>13. Geospatial Reference Systems</b><br><b>TR: JP 2-03, PHAK – Chp 15</b>   |   |    |   |   |
| 13.1. Types of aviation maps and charts  | - | A  | - | B |
| 13.2. Reference systems  |   |    |   |   |
| 13.2.1. Military Grid Reference System (MGRS)  | - | -  | - | B |
| 13.2.2. Utilize Military Grid Reference System (MGRS)  | - | 2b | - | - |
| 13.2.3. Latitude / Longitude (Lat/Long)  | - | -  | - | B |
| 13.2.4. Utilize Latitude / Longitude (Lat/Long)  | - | 2b | - | - |
| 13.2.5. Bearing and Range  | - | -  | - | B |
| 13.2.6. Determine Bearing and Range  | - | 2b | - | - |
| 13.2.7. Utilize Global Area Reference system (GARS)  | - | 2b | - | - |
| 13.3. Mission Software   | - | -  | - | B |
| 13.3.1. Utilize Mission Software   | - | 2b | - | - |
| <b>14. Communication</b><br><b>TR: AFIs 33-xxx Series; ACPs 121,125,165; AFI 11-214; AFKAG; AFTTP 3-1 Vol 1, Attch 1-1, AFDD 2-1.7, AFTTP 3-2.77, AFTTP 3-3. Predator/Reaper</b> |   |    |   |   |
| 14.1. Radio Telephone procedures (RPA) [VOIP & STE]  | - | B  | - | B |
| 14.1.1. Methods of Calls   | - | -  | - | B |
| 14.1.2. Perform Methods of calls   | - | 2b | - | - |
| 14.1.3. Types of calls   | - | -  | - | B |
| 14.1.4. Perform Types of calls   | - | 2b | - | - |
| 14.1.5. Tactical Chat  | - | -  | - | B |
| 14.1.5. Utilize Tactical Chat  | - | 2b | - | - |
| 14.2. Radio Frequency Bands  |   |    |   |   |
| 14.2.1. UHF  | - | A  | - | B |
| 14.2.2. VHF  | - | A  | - | B |
| 14.2.3. HF   | - | A  | - | B |
| 14.2.4. SATCOM   | - | A  | - | B |
| 14.2.5. Secure Comm.   | - | A  | - | B |
| 14.3. Situational Awareness Data links   |   |    |   |   |
| 14.3.1. TADIL-J/LINK 16 [TDF/FV]   | - | A  | - | B |
| 14.3.2. FMV data links   | - | A  | - | B |
| <b>15. RPA Crew Activities</b><br><b>TR: AFTTP 3-3. Predator/Reaper AFTTP(I) 3-2.64, AFPAM 14-121</b>  |   |    |   |   |
| 15.1. Introduction to computers  | - | A  | - | - |
| 15.2. General mission planning   | - | A  | - | B |
| 15.3. RPA briefings  |   | -  | - | B |
| 15.3.1 Perform RPA briefings   | - | 2b | - | - |
| 15.4. RPA planning   | - | -  | - | B |
| 15.4.1. Perform RPA planning   | - | 2b | - | - |

|  |   |    |   |   |
|--|---|----|---|---|
| 15.5. Demonstrate Crew Resource Management   | - | 1a | - | - |
| 15.6. MCE/LRE Operations   | - | A  | - | B |
| 15.7. Handover Procedures  | - | A  | - | B |
| <b>16. Full Motion Video Optimization &amp; Displays<br/>TR: -1 T.O., AFTTP 3-3. Predator/Reaper</b>   |   |    |   |   |
| 16.1. FMV Sensor Optimization  | - | A  | - | B |
| 16.2. FMV Target Acquisition   |   |    |   |   |
| 16.2.1. Funnel Navigation  | - | -  | - | B |
| 16.2.2. Perform Funnel Navigation  | - | 2b | - | - |
| 16.2.3. Aircraft Orientation   | - | -  | - | B |
| 16.2.4. Determine Aircraft Orientation   | - | 2b | - | - |
| 16.2.5. Target Orientation   | - | -  | - | B |
| 16.2.6. Determine Target Orientation   | - | 2b | - | - |
| 16.2.7. FMV Tactical Analysis  | - | -  | - | B |
| 16.2.8. Perform FMV Tactical Analysis  | - | 2b | - | - |
| 16.2.9. Standoff Considerations  | - | A  | - | B |
| 16.3. HUD display  |   |    |   |   |
| 16.3.1. HUD Interpretation   | - | -  | - | B |
| 16.3.2. Interpret HUD data   | - | 2b | - | - |
| <b>17. RPA Employment<br/>TR: AFTTP(I) 3-2.64/2.3, AFTTP 3-3<br/>Predator/Reaper, AFDD 2-1.3/1.7/9, AFPAM 14-<br/>114/121/122, JP 3-09.3, JP 2-01, JP 3-52</b> |   |    |   |   |
| 17.1. RPA Tasking  | - | A  | - | B |
| 17.2. Time Sensitive Targets   | - | A  | - | B |
| 17.3. F2T2EA Kill Chain  | - | A  | - | B |
| 17.4. Airspace Control   |   |    |   |   |
| 17.4.1. Controlling agencies   | - | A  | - | B |
| 17.4.2. Airspace control procedures<br>(ROZ/Killbox/Keypad)  | - | A  | - | B |
| 17.5. Intelligence, Surveillance, and Reconnaissance<br>(ISR) Operations   |   |    |   |   |
| 17.5.1. General ISR C2 Structure   | - | A  | - | B |
| 17.5.2. Duties within ISR Structure  | - | A  | - | B |
| 17.5.3. Functions and duties within RPA Operations<br>Center   | - | A  | - | B |
| 17.5.4. Predictive Battlefield Awareness   | - | A  | - | B |
| 17.5.5. ISR Planning and exploitation<br>(TPED/DCGS/PED)   | - | A  | - | B |
| 17.6. Counterland Operations   |   |    |   |   |
| 17.6.1. Counterland fundamentals   | - | A  | - | B |
| 17.6.2. Air Interdiction (AI)  |   |    |   |   |
| 17.6.2.1. Air Interdiction Objectives  | - | A  | - | B |
| 17.6.2.2. Types of AI requests   | - | A  | - | B |
| 17.6.2.3. Effective AI Operations  | - | A  | - | B |
| 17.6.3. Close Air Support (CAS)  |   |    |   |   |
| 17.6.3.1. CAS Objectives   | - | A  | - | B |

|   |   |   |   |   |
|---|---|---|---|---|
| 17.6.3.2. Terminal Attack Control   | - | A | - | B |
| 17.6.3.3. Types of CAS requests   | - | A | - | B |
| 17.6.3.4. Effective CAS operations  | - | A | - | B |
| 17.7. Munitions   | - | A | - | B |
| <b>17.8. Threat Systems</b>   |   |   |   |   |
| 17.8.1. Electronic  | - | A | - | B |
| 17.8.2. Mechanical  | - | A | - | B |
| 17.8.3. Adversary Air   | - | A | - | B |
| 17.8.4. Adversary Ground  | - | A | - | B |
| 17.8.5. Threat Reduction/Standoff   | - | A | - | B |
| <b>18. Joint Operations / Theater Operations</b><br><b>TR: AFDD 1, AFDD 2, JP 3-0</b> |   |   |   |   |
| 18.1. Joint Force Doctrine  | - | A | - | B |
| 18.2. USAF Doctrine   | - | A | - | B |
| 18.3. Unified Command Structure   | - | A | - | B |
| 18.4. US, Allied and Commercial ISR, Strike and Multi-Role platforms and sources      | - | A | - | B |
| 18.5. Multi-Role Agencies (DOD & Civilian)  | - | A | - | B |

## Section B – Course Objective List

**4. Measurement.** Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and performance progress check. **P** indicates performance test only.

**5. Standard.** The standard is 85% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

**6. Proficiency Level.** Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

**7. Course Objective.** These objectives are listed in the sequence taught by Block of Instruction.

### 7.1. Initial Skills Course:

#### 7.1.1. Block 1. Introduction to Remotely Piloted Aviation

##### 7.1.1.1. Orientation

##### 7.1.1.2. 1U031 Career Field

##### 7.1.1.3. Safety

#### 7.1.2. Block 2. Sensors and Communications

##### 7.1.2.1. Sensors

##### 7.1.2.2. Communications Theory

##### 7.1.2.3. Communications Performance

#### 7.1.3. Block 3. RPA System Operations

##### 7.1.3.1. Aircraft

##### 7.1.3.2. Control

##### 7.1.3.3. Situational Awareness

#### 7.1.4. Block 4. Reference Systems

##### 7.1.4.1. Aviation Charts and Maps

##### 7.1.4.2. Geospatial Reference Systems

#### 7.1.5. Block 5. Full Motion Video (FMV)

##### 7.1.5.1. Introduction to FMV

##### 7.1.5.2. Operational Environment

#### 7.1.6. Block 6. Employment

##### 7.1.6.1. Intelligence, Surveillance, and Reconnaissance

##### 7.1.6.2. Counter-land Operations

##### 7.1.6.3. Tasking

##### 7.1.6.4. Mission Planning

#### 7.1.7. Block 7. Operational Interface

##### 7.1.7.1. Doctrine

##### 7.1.7.2. Aircraft

### **7.1.8. Block 8. Crew Integration**

7.1.8.1. Crew Integration Simulators

7.1.8.2. Crew Assessment

7.1.8.3. Crew Activities

## **Section C – Support Materials**

8. The following list of support materials is not all-inclusive; however, it covers the most frequently referenced areas.

**NOTE:** This area is reserved for future use.

## **Section D – Training Course Index**

**9. Purpose.** This section of the CFETP identifies training course available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs. Course requirements and details can be found at <https://rso.my.af.mil/etcacourses/>.

### **10. Air Force In-Residence Courses.**

| <b>COURSE NUMBER</b> | <b>COURSE TITLE</b>  | <b>LOCATION</b>  |
|----------------------|--|------------------|
| L3AQR1U0X1 01AA      | Aircrew Fundamentals w/o Chamber Qualification                       | Lackland AFB, TX |
| RPA BSOC (B80)       | Remotely Piloted Aircrafts (RPA) Basic Sensor Operator Course (BSOC) | Randolph AFB, TX |

### **11. Air University AU/A4L Catalog.**

| <b>COURSE NUMBER</b>                | <b>COURSE TITLE</b>   |
|-------------------------------------|---|
| CDC 1AX5X                           | Aircrew Fundamentals  |
| CDC 1U051 (Reserved for Future Use) | Remotely Piloted Aircrafts (RPA) Sensor Operator Journeyman |

**NOTE:** CDC Volume(s) and content have not yet been established. Reserved for future use.

## Section E – MAJCOM Unique Requirements

### 12. Air Combat Command Courses.

| COURSE NUMBER | COURSE TITLE  | LOCATION  |
|---------------|---|---|
| MQ1IQR        | MQ-1B Initial Qualification and Requalification Training Course | Creech AFB, NV<br>Holloman AFB, NM<br>March ARB, CA |
| MQ1IUT        | MQ-1B Instructor Upgrade Training Course                        | Creech AFB, NV<br>Holloman AFB, NM<br>March ARB, CA |
| MQ1LR         | MQ-1B Launch and Recovery Training Course                       | Creech AFB, NV<br>Holloman AFB, NM<br>March ARB, CA |
| MQ9PSOLRC     | MQ-9 Launch/Recovery Training Course                            | Creech AFB, NV<br>Holloman AFB, NM                  |
| MQ9PSOTX1     | MQ-9 Basic Training Course                                      | Holloman AFB, NM                                    |
| MQ9PSOTX2     | MQ-9 Basic Training Course                                      | Holloman AFB, NM                                    |

### 13. Air Education and Training Command Courses.

| COURSE NUMBER   | COURSE TITLE   | LOCATION         |
|-----------------|--|------------------|
| L3AIRTXXXX 0B1A | Basic Instructor Course (BIC)                        | Lackland AFB, TX |
| E6AZU3S200 015  | CDC Writer   | CBT Course       |
| E6AILTXXXX 011A | Principles of Instructional System Development (ISD) | CBT Course       |

### 14. Air National Guard Courses.

| COURSE NUMBER | COURSE TITLE | LOCATION |
|---------------|--------------|----------|
|               |              |          |

*NOTE:* Reserved for future use.